

# Closure Report

**RECEIVED**

AUG 09 2013

**NMOOD ARTESIA**

## Site Description

Site Name:	Sterling Silver 3 Federal #6
Company:	Oxy Permian Ltd.
Legal Description:	U/L F, Section 3, T24S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.24812° W 103.76672°

## Release Data

Date of Release:	01/23/2013
Type of Release:	Oil and Produced water
Source of Release:	Rubber brushing failure between pump & motor/tank overflow
Volume of Release:	1 bbl of oil and 200 bbls of produced water
Volume Recovered:	180 bbls

## Remediation Specifications

Remediation Parameters:	Excavate across the entire leak site to a depth of 2 feet to 2.5 feet as practicable. Then, backfill the site with clean soil.
Remediation Activities:	06/28/2013 to 07/24/2013

Plan Sent to OCD:	04/01/2013	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	04/05/2013	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	04/09/2013	Email from C. Brunson to Jennifer Van Curen
BLM Approval of Plan:	04/10/2013	Email from Jennifer Van Curen to C. Brunson

## Supporting Documentation

Initial C-141	Signed 02/04/2013
Final C-141	Signed 08/06/2013
Site Diagram	January 2013
Groundwater Plot	400'
TOPO Maps	January 2013
Lab Summary	02/14/2013 and 03/12/2013
Lab Analysis	02/14/2013 and 03/12/2013
Correspondence	Request and approval of remediation plan via email

## Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

08/08/2013

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	CJ Summers
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	Sterling Silver 3 Federal #6 Battery	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		Lease No.	NM-55142

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	3	24S	31E	1980	North	2310	West	Eddy

Latitude N 32.24812° Longitude W 103.76672°

#### NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	200 bbls water, 1 bbl oil	Volume Recovered	180 bbls
Source of Release	Rubber brushing failure between pump and motor caused tank to spill over	Date and Hour of Occurrence	1/23/13	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher- OCD; James Amos- BLM		
By Whom?	Chancey Summers	Date and Hour	1/24/13 @ 1:54 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Rubber brushing failure between a pump and motor caused a tank to spill over releasing 200 bbls of produced water and 1 bbl of oil onto the ground. 180 bbls were recovered via vacuum truck and the brushing was repaired.

Describe Area Affected and Cleanup Action Taken.\*

Rubber brushing failure between a pump and motor caused a tank to spill over releasing 200 bbls of produced water and 1 bbl of oil onto the ground. 180 bbls were recovered via vacuum truck and the brushing was repaired. Remediation will be performed in accordance with an OCD and BLM approved remediation plan.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

#### OIL CONSERVATION DIVISION

Signature:	Approved by District Supervisor:		
Printed Name: Chancey Summers			
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Chancey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 2-4-13	Phone: (575) 397-8216		

\* Attach Additional Sheets If Necessary

District I  
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Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
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with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	CJ Summers
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	Sterling Silver 3 Federal #6 Battery	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		Lease No.	NM-55142

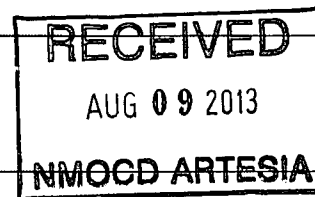
#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	3	24S	31E	1980	North	2310	West	Eddy

Latitude N 32.24812° Longitude W 103.76672°

#### NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	200 bbls water, 1 bbl oil	Volume Recovered	180 bbls
Source of Release	Rubber brushing failure between pump and motor caused tank to spill over	Date and Hour of Occurrence	1/23/13	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher- OCD; James Amos- BLM		
By Whom?	Chancey Summers	Date and Hour	1/24/13 @ 1:54 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			



If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

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Describe Area Affected and Cleanup Action Taken.\*

Rubber brushing failure between a pump and motor caused a tank to spill over releasing 200 bbls of produced water and 1 bbl of oil onto the ground. 180 bbls were recovered via vacuum truck and the brushing was repaired. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOC D via email on 04/05/2013 and approved by Jennifer Van Curen via email on 04/10/2013.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC D rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC D marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC D acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

#### OIL CONSERVATION DIVISION

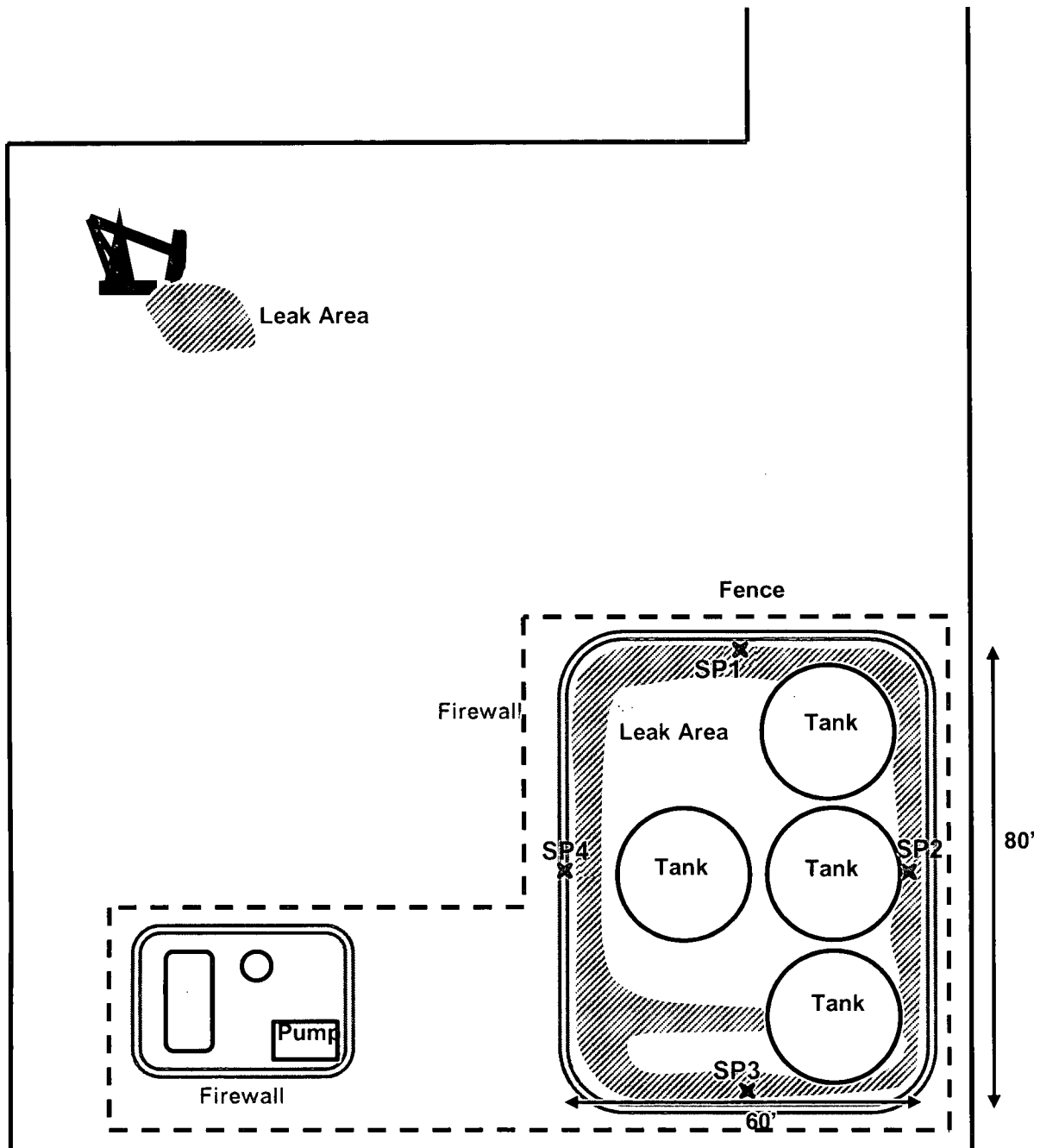
Signature:	Approved by District Supervisor:		
Printed Name: Chancey Summers			
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Chancey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8-6-13	Phone: (575) 397-8216		

\* Attach Additional Sheets If Necessary



Oxy

Sterling Silver 3 #6 Battery



U/L F, Section 3, T24S, R31E  
1980' FNL and 2310' FWL  
Eddy County, NM

NM-55142

BBC International, Inc.

Oxy

Sterling Silver 3 #6 Btry (1/23/13)

Date: 01/30/13

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2013



# Groundwater Plot

## Oxy Sterling Silver 3 Federal #6

County  
Eddy

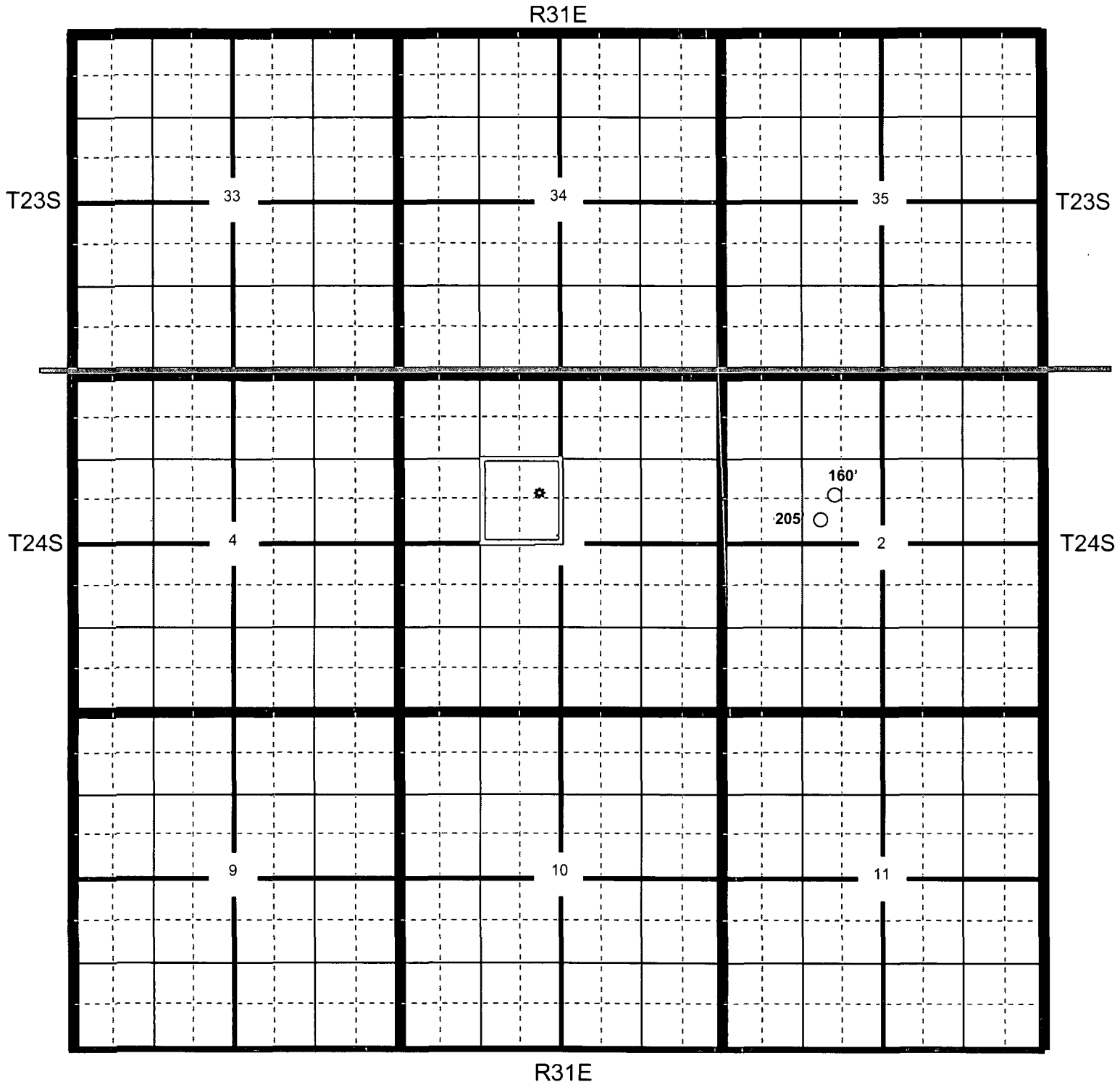
Unit Letter  
F

Section  
3

Township  
24S

Range  
31E

Trend Map 400'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases

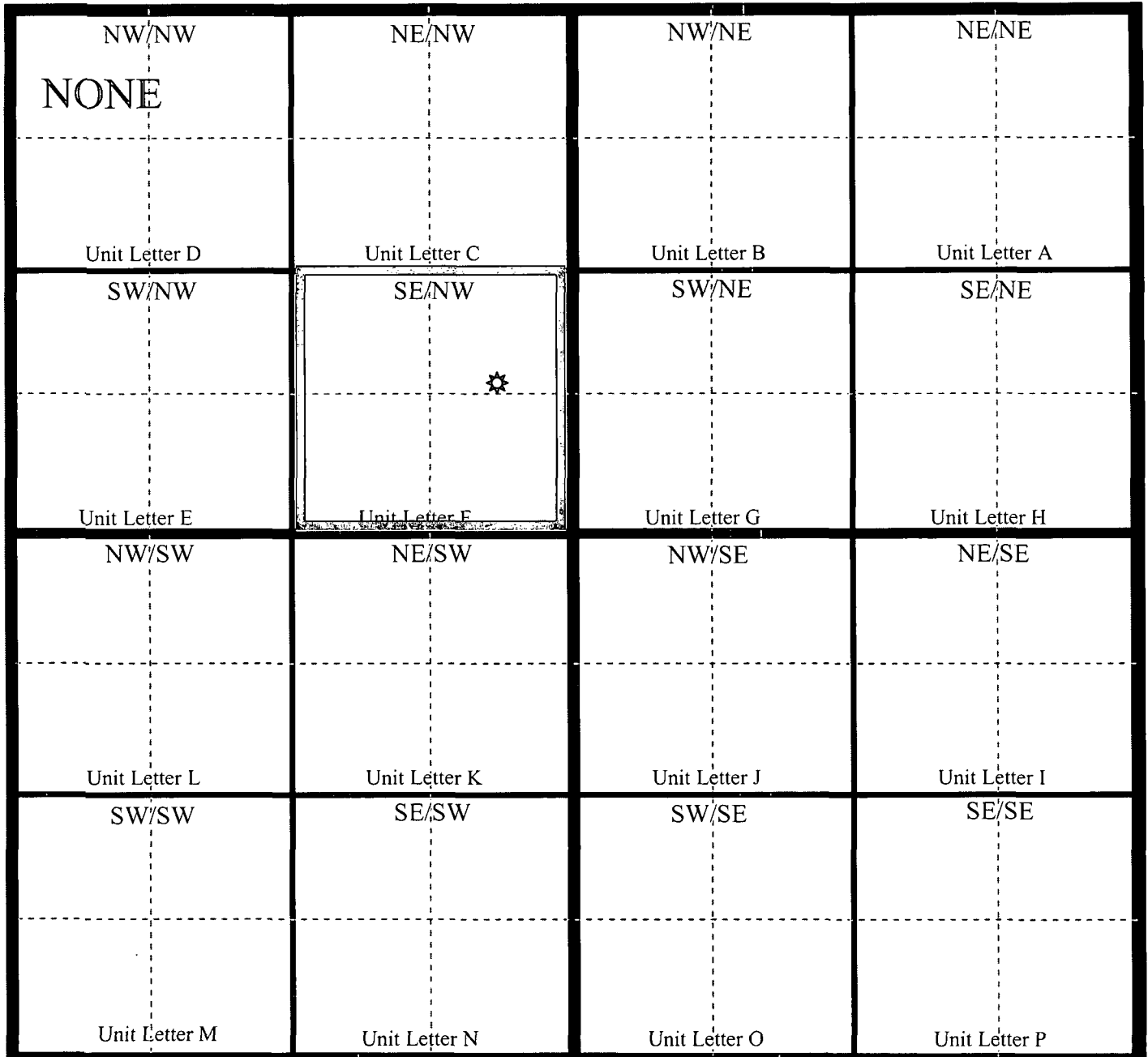
# Oxy Sterling Silver 3 Federal #6

County Eddy      Unit Letter F      Section 3      Township 24S      Range 31E

Trend Map 400'

1

2

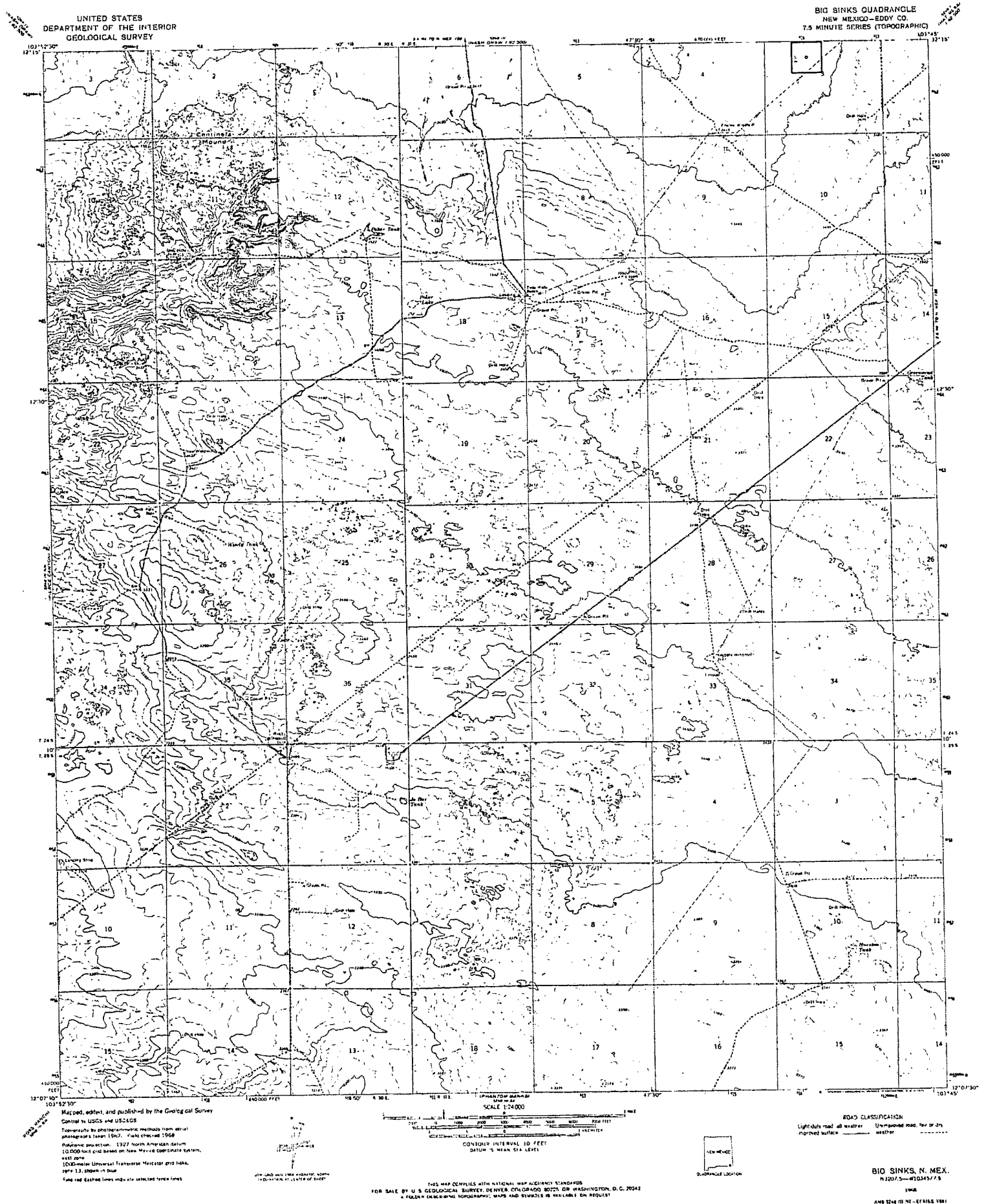


3

4

# Oxy

## Sterling Silver 3 #6 Btry







**Laboratory Analytical Results Summary  
Sterling Silver 3 #6 Battery**

		Sample	SP1 @ Surface	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	2/4/13	2/4/13	2/4/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		14.3	<0.050	<0.050
Toluene	BTEX 8021B		42.4	<0.050	<0.050
Ethylbenzene	BTEX 8021B		18.7	<0.050	<0.050
Total Xylenes	BTEX 8021B		67.4	<0.150	<0.150
Total BTEX	BTEX 8021B		143	<0.300	<0.300
Chloride	SM4500Cl-B		11600	96	1360
GRO	TPH 8015M		4830	<10.0	<10.0
DRO	TPH 8015M		8060	174	<10.0

		Sample	SP2 @ Surface	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	2/4/13	2/4/13	2/4/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		16.5	<0.050	<0.050
Toluene	BTEX 8021B		56.1	<0.050	<0.050
Ethylbenzene	BTEX 8021B		30.1	<0.050	<0.050
Total Xylenes	BTEX 8021B		118	<0.150	<0.150
Total BTEX	BTEX 8021B		221	<0.300	<0.300
Chloride	SM4500Cl-B		10700	96	1140
GRO	TPH 8015M		7280	<10.0	<10.0
DRO	TPH 8015M		13800	116	<10.0

		Sample	SP3 @ Surface	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	2/4/13	2/4/13	2/4/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		11.7	<0.050	<0.050
Toluene	BTEX 8021B		68.5	<0.050	<0.050
Ethylbenzene	BTEX 8021B		35.4	<0.050	<0.050
Total Xylenes	BTEX 8021B		128	<0.150	<0.150
Total BTEX	BTEX 8021B		243	<0.300	<0.300
Chloride	SM4500Cl-B		9490	48	1540
GRO	TPH 8015M		6720	<10.0	<10.0
DRO	TPH 8015M		12200	61.9	<10.0

		Sample	SP4 @ Surface	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	2/4/13	2/4/13	2/4/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		11	<0.050	<0.050
Toluene	BTEX 8021B		67	<0.050	<0.050
Ethylbenzene	BTEX 8021B		33.7	<0.050	<0.050
Total Xylenes	BTEX 8021B		123	<0.150	<0.150
Total BTEX	BTEX 8021B		235	<0.300	<0.300
Chloride	SM4500Cl-B		8930	80	896
GRO	TPH 8015M		7370	<10.0	<10.0
DRO	TPH 8015M		13400	195	<10.0

**Laboratory Analytical Results Summary**  
**Sterling Silver 3 Federal #6 Battery**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	3/12/13	3/12/13	3/12/13	3/12/13
			mg/Kg	mg/Kg	mg/Kg	mg/kg
Chloride	SM4500Cl-B		3200	1480	144	304

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	3/12/13	3/12/13	3/12/13	3/12/13
			mg/Kg	mg/Kg	mg/Kg	mg/kg
Chloride	SM4500Cl-B		3320	1390	144	272

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	3/12/13	3/12/13	3/12/13	3/12/13
			mg/Kg	mg/Kg	mg/Kg	mg/kg
Chloride	SM4500Cl-B		4080	1700	80	256

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	3/12/13	3/12/13	3/12/13	3/12/13
			mg/Kg	mg/Kg	mg/Kg	mg/kg
Chloride	SM4500Cl-B		3960	1410	128	240

February 12, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STERLING 3 6 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/05/13 8:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

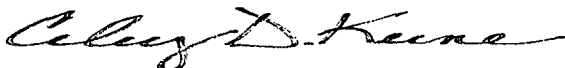
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

 Received: 02/05/2013  
 Reported: 02/12/2013  
 Project Name: STERLING 3 6 BATTERY  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/04/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ SURFACE (H300324-01)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>14.3</b>	2.00	02/07/2013	ND	1.94	97.1	2.00	17.9	
<b>Toluene*</b>	<b>42.4</b>	2.00	02/07/2013	ND	1.96	98.1	2.00	17.4	
<b>Ethylbenzene*</b>	<b>18.7</b>	2.00	02/07/2013	ND	1.96	97.9	2.00	17.8	
<b>Total Xylenes*</b>	<b>67.4</b>	6.00	02/07/2013	ND	6.02	100	6.00	17.0	
<b>Total BTEX</b>	<b>143</b>	12.0	02/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 120 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>11600</b>	16.0	02/06/2013	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>4830</b>	50.0	02/05/2013	ND	202	101	200	4.59		
<b>DRO &gt;C10-C28</b>	<b>8060</b>	50.0	02/05/2013	ND	179	89.4	200	6.05		

Surrogate: 1-Chlorooctane 211 % 65.2-140

Surrogate: 1-Chlorooctadecane 211 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

 Received: 02/05/2013  
 Reported: 02/12/2013  
 Project Name: STERLING 3 6 BATTERY  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/04/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 2' (H300324-02)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTX	<0.300	0.300	02/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/06/2013	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/05/2013	ND	202	101	200	4.59	
DRO >C10-C28	174	10.0	02/05/2013	ND	179	89.4	200	6.05	

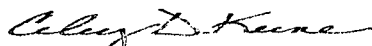
Surrogate: 1-Chlorooctane 84.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

 Received: 02/05/2013  
 Reported: 02/12/2013  
 Project Name: STERLING 3 6 BATTERY  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/04/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 3' (H300324-03)**

BTEx 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9		
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4		
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8		
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0		
Total BTEx	<0.300	0.300	02/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	02/06/2013	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/05/2013	ND	202	101	200	4.59	
DRO >C10-C28	<10.0	10.0	02/05/2013	ND	179	89.4	200	6.05	

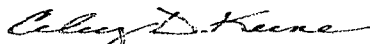
Surrogate: 1-Chlorooctane 91.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

 Received: 02/05/2013  
 Reported: 02/12/2013  
 Project Name: STERLING 3 6 BATTERY  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/04/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ SURFACE (H300324-04)**

BTX 8021B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>16.5</b>	1.00	02/07/2013	ND	1.94	97.1	2.00	17.9	
<b>Toluene*</b>	<b>56.1</b>	1.00	02/07/2013	ND	1.96	98.1	2.00	17.4	
<b>Ethylbenzene*</b>	<b>30.1</b>	1.00	02/07/2013	ND	1.96	97.9	2.00	17.8	
<b>Total Xylenes*</b>	<b>118</b>	3.00	02/07/2013	ND	6.02	100	6.00	17.0	
<b>Total BTX</b>	<b>221</b>	6.00	02/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 175 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>10700</b>	16.0	02/06/2013	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>7280</b>	100	02/06/2013	ND	202	101	200	4.59	
<b>DRO &gt;C10-C28</b>	<b>13800</b>	100	02/06/2013	ND	179	89.4	200	6.05	

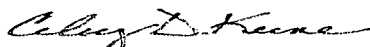
Surrogate: 1-Chlorooctane 190 % 65.2-140

Surrogate: 1-Chlorooctadecane 349 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 02/05/2013  
Reported: 02/12/2013  
Project Name: STERLING 3 6 BATTERY  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 02/04/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 2' (H300324-05)**

BTEx 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEx	<0.300	0.300	02/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 117 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/06/2013	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2013	ND	202	101	200	4.59	
DRO >C10-C28	116	10.0	02/06/2013	ND	179	89.4	200	6.05	

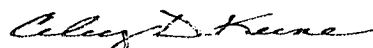
Surrogate: 1-Chlorooctane 91.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

 Received: 02/05/2013  
 Reported: 02/12/2013  
 Project Name: STERLING 3 6 BATTERY  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/04/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 3' (H300324-06)**

BTEX 8021B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9		
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4		
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8		
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0		
Total BTEX	<0.300	0.300	02/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 89.4-126

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	02/06/2013	ND	432	108	400	3.64		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/06/2013	ND	202	101	200	4.59		
DRO >C10-C28	<10.0	10.0	02/06/2013	ND	179	89.4	200	6.05		


Surrogate: 1-Chlorooctane 90.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	02/05/2013	Sampling Date:	02/04/2013
Reported:	02/12/2013	Sampling Type:	Soil
Project Name:	STERLING 3 6 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ SURFACE (H300324-07)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	11.7	1.00	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	68.5	1.00	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	35.4	1.00	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	128	3.00	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	243	6.00	02/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 180 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>9490</b>	16.0	02/06/2013	ND	432	108	400	3.64		
<b>TPH 8015M</b>										

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>6720</b>	50.0	02/06/2013	ND	202	101	200	4.59		
<b>DRO &gt;C10-C28</b>	<b>12200</b>	50.0	02/06/2013	ND	179	89.4	200	6.05		

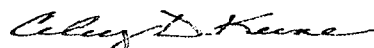
Surrogate: 1-Chlorooctane 280 % 63.2-140

Surrogate: 1-Chlorooctadecane 301 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	02/05/2013	Sampling Date:	02/04/2013
Reported:	02/12/2013	Sampling Type:	Soil
Project Name:	STERLING 3 6 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 2' (H300324-08)**

BTEx 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9		
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4		
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8		
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0		
Total BTEx	<0.300	0.300	02/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 114 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/06/2013	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/06/2013	ND	202	101	200	4.59		
DRO >C10-C28	61.9	10.0	02/06/2013	ND	179	89.4	200	6.05		

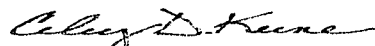
Surrogate: 1-Chlorooctane 90.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	02/05/2013	Sampling Date:	02/04/2013
Reported:	02/12/2013	Sampling Type:	Soil
Project Name:	STERLING 3 6 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 3' (H300324-09)**

BTX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9		
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4		
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8		
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0		
Total BTX	<0.300	0.300	02/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1540	16.0	02/06/2013	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/06/2013	ND	202	101	200	4.59		
DRO >C10-C28	<10.0	10.0	02/06/2013	ND	179	89.4	200	6.05		

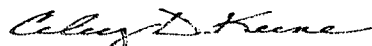
Surrogate: 1-Chlorooctane 80.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received:	02/05/2013	Sampling Date:	02/04/2013
Reported:	02/12/2013	Sampling Type:	Soil
Project Name:	STERLING 3 6 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 4 @ SURFACE (H300324-10)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>11.0</b>	1.00	02/07/2013	ND	1.94	97.1	2.00	17.9	
<b>Toluene*</b>	<b>67.0</b>	1.00	02/07/2013	ND	1.96	98.1	2.00	17.4	
<b>Ethylbenzene*</b>	<b>33.7</b>	1.00	02/07/2013	ND	1.96	97.9	2.00	17.8	
<b>Total Xylenes*</b>	<b>123</b>	3.00	02/07/2013	ND	6.02	100	6.00	17.0	
<b>Total BTEX</b>	<b>235</b>	6.00	02/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 175 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>8930</b>	16.0	02/06/2013	ND	432	108	400	3.64	
<b>TPH 8015M</b>									

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>7370</b>	50.0	02/06/2013	ND	202	101	200	4.59	
<b>DRO &gt;C10-C28</b>	<b>13400</b>	50.0	02/06/2013	ND	179	89.4	200	6.05	

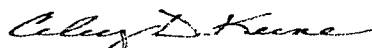
Surrogate: 1-Chlorooctane 199 % 65.2-140

Surrogate: 1-Chlorooctadecane 355 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

 Received: 02/05/2013  
 Reported: 02/12/2013  
 Project Name: STERLING 3 6 BATTERY  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 02/04/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 2' (H300324-11)**

BTEx 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9		
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4		
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8		
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0		
Total BTEx	<0.300	0.300	02/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 118 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/06/2013	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2013	ND	202	101	200	4.59	
DRO >C10-C28	195	10.0	02/06/2013	ND	179	89.4	200	6.05	

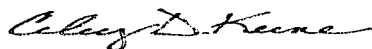
Surrogate: 1-Chlorooctane 82.5 % 63.2-140

Surrogate: 1-Chlorooctadecane 98.2 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 02/05/2013  
Reported: 02/12/2013  
Project Name: STERLING 3 6 BATTERY  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 02/04/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 3' (H300324-12)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	<0.300	0.300	02/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	02/06/2013	ND	432	108	400	3.64	
TPH 8015M		mg/kg		Analyzed By: MS					

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/06/2013	ND	202	101	200	4.59	
DRO >C10-C28	<10.0	10.0	02/06/2013	ND	179	89.4	200	6.05	

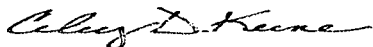
Surrogate: 1-Chlorooctane 86.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

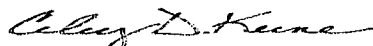
- S-06      The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND      Analyte NOT DETECTED at or above the reporting limit
- RPD      Relative Percent Difference
- \*\*      Samples not received at proper temperature of 6°C or below.
- \*\*\*      Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celest D. Keene, Lab Director/Quality Manager





# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																					
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around; font-size: 2em;"> <div>TPH</div> <div>BTEX</div> <div>CL-</div> </div>																					
Address: P.O. Box 805				Company:																									
City: Hobbs State: NM Zip: 88241				Attn:																									
Phone #: 575-397-6388 Fax #: 575-397-0397				Address: SAME																									
Project #: Project Owner: OKY				City:																									
Project Name: STERLING 3 to Baff				State: Zip:																									
Project Location:				Phone #:																									
Sampler Name: ROYCE HERNANDEZ				Fax #:																									
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		GRAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
H300304		SP1 @ Surface		G		1						✓										✓				2-4-13		930	
1		C 2'		G		1						✓										✓				2-4-13		1010	
2		C 3'		G		1						✓										✓				2-4-13		1025	
3		SP2 @ Surface		G		1						✓										✓				2-4-13		0240	
4		C 2'		G		1						✓										✓				2-4-13		1115	
5		C 3'		G		1						✓										✓				2-4-13		1150	
6		SP3 @ Surface		G		1						✓										✓				2-4-13		1150	
7		C 2'		G		1						✓										✓				2-4-13		1235	
8		C 3'		G		1						✓										✓				2-4-13		1248	
9																													

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Relinquished By: ROYCE HERNANDEZ		Date: 2-5-13		Received By: Jodi Benson		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 6:55				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY: (initials)			
Sampler - UPS - Bus - Other:				Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

2 of 2

Company Name: BBC International, Inc.				<b>BILL TO</b>												<b>ANALYSIS REQUEST</b>											
Project Manager: Cliff Brunson				P.O. #:																							
Address: P.O. Box 805				Company:																							
City: Hobbs State: NM Zip: 88241				Attn:																							
Phone #: 575-397-6388 Fax #: 575-397-0397				Address: <i>Same</i>																							
Project #:				City:																							
Project Name: <i>STERLING 36 Batt</i>				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name: <i>ROGER HERNANDEZ</i>				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME													
<i>H3DD0324</i>	<i>SP 4@ Surface</i>	<i>C1</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>2.4.13</i>	<i>105</i>	<i>TPH</i>												
<i>11</i>	<i>C 2'</i>	<i>C1</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>2.4.13</i>	<i>132</i>	<i>BTEX</i>												
<i>12</i>	<i>C 3'</i>	<i>C1</i>	<i>1</i>			<i>✓</i>				<i>✓</i>			<i>2.4.13</i>	<i>147</i>	<i>CL-</i>												

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Relinquished By: <i>RH</i>	Date: <i>2.5.13</i>	Received By: <i>Jodi Benson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>8:55</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>JB</i>		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

March 13, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STERLING SILVER 3 6 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/13/13 9:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script, reading "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 03/13/2013  
Reported: 03/13/2013  
Project Name: STERLING SILVER 3 6 BATTERY  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/12/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H300625-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	03/13/2013	ND	432	108	400	3.64	

**Sample ID: SP 1 @ 2' (H300625-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1480	16.0	03/13/2013	ND	432	108	400	3.64	

**Sample ID: SP 1 @ 3' (H300625-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/13/2013	ND	432	108	400	3.64	

**Sample ID: SP 1 @ 4' (H300625-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/13/2013	ND	432	108	400	3.64	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received:	03/13/2013	Sampling Date:	03/12/2013
Reported:	03/13/2013	Sampling Type:	Soil
Project Name:	STERLING SILVER 3 6 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 1' (H300625-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	03/13/2013	ND	432	108	400	3.64	

**Sample ID: SP 2 @ 2' (H300625-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	03/13/2013	ND	432	108	400	3.64	

**Sample ID: SP 2 @ 3' (H300625-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/13/2013	ND	432	108	400	3.64	

**Sample ID: SP 2 @ 4' (H300625-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/13/2013	ND	432	108	400	3.64	

**Sample ID: SP 3 @ 1' (H300625-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	03/13/2013	ND	432	108	400	3.77	

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*Celestine D. Keene*

Celestine D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received: 03/13/2013  
Reported: 03/13/2013  
Project Name: STERLING SILVER 3 6 BATTERY  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/12/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 2' (H300625-10)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1700	16.0	03/13/2013	ND	432	108	400	3.64	

**Sample ID: SP 3 @ 3' (H300625-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/13/2013	ND	432	108	400	3.77		

**Sample ID: SP 3 @ 4' (H300625-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/13/2013	ND	432	108	400	3.77	

**Sample ID: SP 4 @ 1' (H300625-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3960	16.0	03/13/2013	ND	432	108	400	3.77		

**Sample ID: SP 4 @ 2' (H300625-14)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	03/13/2013	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (575) 397-0397

Received:	03/13/2013	Sampling Date:	03/12/2013
Reported:	03/13/2013	Sampling Type:	Soil
Project Name:	STERLING SILVER 3 6 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 4 @ 3' (H300625-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/13/2013	ND	432	108	400	3.77	

**Sample ID: SP 4 @ 4' (H300625-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/13/2013	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in cursive script, reading "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

1 of 2

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Cliff Brunson				P.O. #:															
Address: P.O. Box 805				Company:															
City: Hobbs		State: NM Zip: 88241		Attn:															
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: SAME															
Project #:		Project Owner: Oxix		City:															
Project Name: Sterling Silver 3 lb Batt				State: Zip:															
Project Location:				Phone #:															
Sampler Name:				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	G/RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING		CL-							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL					OTHER:	DATE	TIME	
H300625																			
1	SP1 @ 1'	G	1			✓					✓						3-12-13	930	
2	@ 2'	G	1			✓					✓						3-12-13	945	
3	@ 3'	G	1			✓					✓						3-12-13	1000	
4	@ 4'	G	1			✓					✓						3-12-13	1020	
5	SP2 @ 1'	G	1			✓					✓						3-12-13	1040	
6	@ 2'	G	1			✓					✓						3-12-13	1050	
7	@ 3'	G	1			✓					✓						3-12-13	1105	
8	@ 4'	G	1			✓					✓		3-12-13	1120					
9	SP3 @ 1'	G	1			✓					✓		3-12-13	1138					
10	@ 2'	G	1			✓					✓		3-12-13	1155					

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 3-12-13	Received By: Jodi Benson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 9:45		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		LUSH!!	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	Save samples	
Sampler - UPS - Bus - Other:	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Initials)		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

2 of 2

Page 8 of 8

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST															
Project Manager: Cliff Brunson		P.O. #:																	
Address: P.O. Box 805		Company:																	
City: Hobbs State: NM Zip: 88241		Attn:																	
Phone #: 575-397-6388 Fax #: 575-397-0397		Address: SAME																	
Project #: Project Owner: DXY		City:																	
Project Name: STERLING SILVER 36 Batt		State: Zip:																	
Project Location:		Phone #:																	
Sampler Name: DOGER HERNANDEZ		Fax #:																	
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX	PRESERV.	SAMPLING														
			GROUNDWATER																
			WASTEWATER																
			SOIL																
			OIL																
			SLUDGE																
			OTHER:																
			ACID/BASE:																
			ICE / COOL																
			OTHER:																
						DATE	TIME												
H300625																			
11	SP3 @ 3'	G-1				3-12-13	1209												
12	@ 4'	G-1				3-12-13	1215												
13	SP4 @ 1'	G-1				3-12-13	1215												
14	@ 2'	G-1				3-12-13	1240												
15	@ 3'	G-1				3-12-13	1250												
16	@ 4'	G-1				3-12-13	110												

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>RH</i>	Date: 3-13-13	Received By: <i>Godi Benson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 9:45		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)		Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	<i>GA</i>	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

## Kathy Purvis

---

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Friday, April 05, 2013 2:18 PM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: Oxy-Sterling Silver 3 #6 Battery-Remediation Plan

Reference: OXY USA \* Sterling Silver 3 Fed 6 Battery \* 30-015-27638 \* F-3-24s-31e \* Eddy County, New Mexico  
OCD Tracking Number: 2RP-1546 \* Date of release: 1/23/2013

Cliff,

Your proposal for remediation of the above referenced produced fluid release is approved. Please notify OCD prior to commencement of remedial activities. BLM approval of remediation proposal may be required.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher  
NMOCD District 2  
811 S. First Street  
Artesia, NM 88210  
O: 575-748-1283 X108  
C: 575-626-0857  
F: 575-748-9720

---

**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Monday, April 01, 2013 8:27 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Oxy-Sterling Silver 3 #6 Battery-Remediation Plan

Mike,

This e-mail is to confirm our discussion on March 25, 2013 concerning the remediation plan for the release that occurred at the Oxy Sterling Silver 3 #6 Battery. I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. As agreed, Oxy will excavate 2 to 2.5 feet across the entire leak area at the site or as is practicable. As you will recall, this is the site that we feel the first round of sampling may have had the samples mislabeled so we resampled the site and the second set of samples were more in line with what the field screening data had determined. The site will then be backfilled with clean soil. The depth to groundwater in this area is approximately 400 feet.

If you would please reply back via e-mail with your concurrence of this remediation plan, it would be greatly appreciated.

Oxy and I thank you for your assistance in handling this matter.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
Shipping Address:  
1324 W. Marland St.  
Hobbs, NM 88240 USA  
Phone: (575) 397-6388  
Fax: (575) 397-0397  
E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

\*\*\*\*\*

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## Kathy Purvis

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**From:** Van Curen, Jennifer <jvancure@blm.gov>  
**Sent:** Wednesday, April 10, 2013 1:43 PM  
**To:** Cliff P. Brunson  
**Cc:** James Amos; C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Re: FW: Oxy-Sterling Sliver 3 #6 Battery-Remediation Plan

I don't know if I got back to you on this one yet, but it is approved. Let me know when you are complete.  
Thanks

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220  
OFFICE- 575-234-5905  
CELL - 575-361-0042  
FAX - 575-234-5927

On Tue, Apr 9, 2013 at 5:51 PM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:  
Jennifer,

I have attached a remediation packet of information for your review. The packet includes a site diagram, groundwater information, lab data summary table, and the original laboratory data. In addition, I have attached the approval from the NMOCD for this plan below in this e-mail. Oxy proposes the same following plan to the BLM as approved by the NMOCD.

Oxy proposes to excavate 2 to 2.5 feet across the spill area or as is practicable. The site will then be backfilled with clean soil. The depth to groundwater in this area is approximately 400 feet.

Oxy is therefore requesting the approval of the BLM to proceed with the submitted remediation plan. If you would please respond back via e-mail with your approval, it would be greatly appreciated. If you have any questions, please let us know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
Shipping Address:  
1324 W. Marland St.  
Hobbs, NM 88240 USA  
Phone: (575) 397-6388  
Fax: (575) 397-0397  
E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

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**From:** Mike Bratcher <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>

**Date:** Friday, April 5, 2013 2:17 PM

**To:** Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)>

**Cc:** C J Summers <[Chancey\\_Summers@oxy.com](mailto:Chancey_Summers@oxy.com)>, Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>, Jennifer Gilkey <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>, Kathy Purvis <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>

**Subject:** RE: Oxy-Sterling Sliver 3 #6 Battery-Remediation Plan

Reference: OXY USA \* Sterling Silver 3 Fed 6 Battery \* 30-015-27638 \* F-3-24s-31e \* Eddy County, New Mexico

OCD Tracking Number: 2RP-1546 \* Date of release: 1/23/2013

Cliff,

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If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher

NMOCD District 2

811 S. First Street

Artesia, NM 88210

O: 575-748-1283 X108

C: 575-626-0857

F: 575-748-9720

---

**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Monday, April 01, 2013 8:27 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Oxy-Sterling Sliver 3 #6 Battery-Remediation Plan

Mike,

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If you would please reply back via e-mail with your concurrence of this remediation plan, it would be greatly appreciated.

Oxy and I thank you for your assistance in handling this matter.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

Mailing Address:

P. O. Box 805

Hobbs, NM 88241-0805 USA

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1324 W. Marland St.

Hobbs, NM 88240 USA

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E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

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